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I hereby certify that this paper is being facsimile transmitted to the Patent and Trademark Office on the date shown below.	
Kenneth W. Fields <small>name of person signing certification</small>	
 <small>Signature</small>	December 6, 2005 <small>Date</small>

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : **Confirmation No. 2886**

Mitsuo KAWAJI et al. : **Docket No. 2004\_0491A**

Serial No. 10/811,963 : **Group Art Unit 2837**

Filed March 30, 2004 : **Examiner Patrick L. Miller**

INVERTER CONTROLLER FOR DRIVING  
MOTOR AND AIR CONDITIONER USING  
INVERTER CONTROLLER

**FAX RECEIVED**

DEC 06 2005

## INFORMATION DISCLOSURE STATEMENT

**OFFICE OF PETITIONS**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

THE COMMISSIONER IS AUTHORIZED  
TO CHARGE ANY DEFICIENCY IN THE  
FEES FOR THIS PAPER TO DEPOSIT  
ACCOUNT NO. 23-0975

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for:

- ☒ each U.S. Patent and U.S. Patent application publication;
- ☐ each reference previously cited in the international application PCT/\_\_\_\_\_; and/or
- ☐ each reference previously cited in prior parent application Serial No. \_\_\_\_\_.

1a. ☒ This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, or

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

**and thus no certification and/or fee is required.**

1b. ☐ This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

(1) ☐ the certification of paragraph 2 below is provided, or

(2) ☐ the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

1c. ☐ This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

**the certification of paragraph 2 below is provided, and**

**the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.**

2. It is hereby certified

a. ☐ that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or

b. ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.

3. ☐ Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.

4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:

- a. ☐ a full or partial English language translation submitted herewith,
  - b. ☒ a foreign patent office search report (in the English language) submitted herewith,
  - c. ☐ the concise explanation contained in the specification of the present application at page,
  - d. ☒ the concise explanation set forth in the attached English language abstract,
  - e. ☐ the concise explanation set forth below or on a separate sheet attached to the reference
5. ☒ A foreign patent office search report citing one or more of the references is enclosed.
6. ☒ Regarding EP 0 488 163A and JP 60-219996, Applicants note that because this IDS is being filed via facsimile, only the English Abstracts of these references are attached hereto. Applicants will submit a full copy of these references (total 23 pages) to the PTO via regular mail.

Respectfully submitted,

Mitsuo KAWAJI et al.

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December 6, 2005

Sheet 1 of 1

## INFORMATION DISCLOSURE STATEMENT

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)  
(Use several sheets if necessary)

Date Submitted to PTO: December 6, 2005

ATTY DOCKET NO.  
2004\_0491ASERIAL NO.  
10/811,963APPLICANT  
Mitsuo KAWAJI et al.FILING DATE  
March 30, 2004GROUP  
2837

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,532,569	07/96	Tanamachi et al.			
	AB	5,583,412	12/96	Nielsen			
	AC	2002/190685A1	12/02	Sadasivam et al.			
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						

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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AJ	0 488 163 A		EP			Abstract
	AK	60-219996		JP			Abstract

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

AL	LIN W M ET AL: "A new topology for passive PFC circuit design to allow AC-to-DC converters to comply with the new version of IEC1000-3-2 regulations" 33RD. ANNUAL IEEE POWER ELECTRONICS SPECIALISTS CONFERENCE. PESC 2002. CONFERENCE PROCEEDINGS. CAIRNS, QUEENSLAND, AUSTRALIA, JUNE 23-27, 2002, ANNUAL POWER ELECTRONICS SPECIALISTS CONFERENCE, NEW YORK, NY: IEEE, US, VOL. 2 of 4. CONF. 33, 23 JUNE 2002, pages 2050-2055, XP010596051
AM	JOVANOVIC M M ET AL: "Merits and limitations of full-bridge rectifier with LC filter in meeting IEC 1000-3-2 harmonic-limit specifications" APPLIED POWER ELECTRONICS CONFERENCE AND EXPOSITION, 1996. APEC '96. CONFERENCE PROCEEDINGS 1996. ELEVENTH ANNUAL SAN JOSE, CA, USA 3-7 MARCH 1996. NEW YORK, NY, USA, IEEE, US, vol. 1, 3 March 1996, pages 354-360, XP010159776
AN	LIN W M ET AL: "Design of the basic rectifier with LC filter to comply with the new edition of the IEC1000-3-2 current harmonic-limit specifications (Edition 2.0)" APEC 2002. 17 <sup>TH</sup> ANNUAL IEEE APPLIED POWER ELECTRONICS CONFERENCE AND EXPOSITION. DALLAS, TX, MARCH 10-14, 2002, ANNUAL APPLIED POWER ELECTRONICS CONFERENCE, NEW YORK, NY: IEEE, US, VOL. 2 OF 2. CONF. 17, 10 March 2002, pages 1215-1220, XP010583071

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.